Correction
A- Physique

Thème 4

Chapitre 1 : spectres atomiques

Exercice N°1 :

1°)

a- $E_n = \frac{-13,6}{n_2}$ eV

n = 1 $E_1 = -13,6$eV

n = 2 $E_2 = -3,4$eV

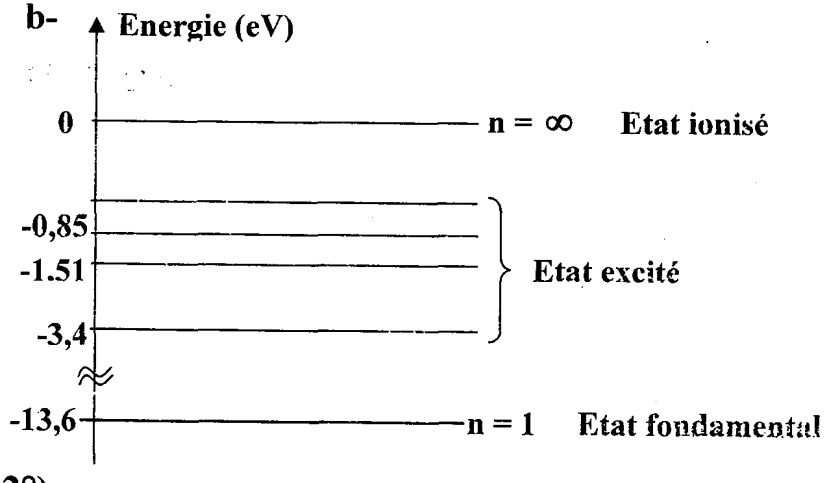
n = 3 $E_3 = -1,51$eV

n = 4 $E_4 = -0,85$eV

n = 5 $E_5 =$ – eV

n = 6 $E_6 =$ – eV

b-



2°)

a- $\omega_{ph} = E_p - E_1 \Rightarrow E_p = \omega_{ph} + E_1$

$E_p = 12,75 - 13,6 = -0,85$ e.V$=E_4$